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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,295	07/13/2006	Eric Courbon	034299-000706	3081
46188 THELEN REII	7590 11/23/200 D BROWN RAYSMAN	EXAMINER		
P. O. BOX 640640			FISHMAN, MARINA	
SAN JOSE, CA 95164-0640			ART UNIT	PAPER NUMBER
			2832	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/586,295	COURBON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Marina Fishman	2832			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 13 July 2006.					
· <u> </u>	, <del></del>				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-12 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	· .			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 10/10/2006.</li> </ol>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate			

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### **DETAILED ACTION**

#### General status

1. This is a First Action on the Merits. Claims 1 - 12 are pending in the case and are being examined.

## **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Claim Objections

3. Claims 1 – 12 are objected to because of the following informalities:

Claim 1, lines 1 and 2, "this" should be changed to –said--; line 7 "a so-called opening spring" should be changed to—an opening spring--; line 8, a so-called closing spring" should be changed to—a closing spring--; lines 14 - 15, "near a dead centre position, so-called open dead centre" should be changed to –near an open dead centre position--.

Claim 3, line 3, "near a dead centre position, so-called close dead centre" should be changed to –near a close dead centre position--.

Claim 9, "said disengaging arrangement" lacks proper antecedent basis. The Examiner interprets this claim to depend from Claim 8 (to provide for proper antecedent basis).

Claim 11, "said pushing device" lacks proper antecedent basis. The Examiner interprets this claim to depend from Claim 10 (to provide for proper antecedent basis).

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Only few of the deficiencies are pointed out above, the Applicant is required to review all the claims and make necessary changes.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yin [US 4,800,242] in view of Sfondrini et al. [WO 00/05735.]

Yin discloses a device for controlling a circuit breaker intended for opening and closing the device comprising:

- a mobile contact [20, upper];
- a motor [12-10, Figure3] with a rotary output shaft [12-12, 12-8] and being connected to power supply means [not shown] and to actuation means [40] transforming the output displacement of the actuation means into a displacement of the contact,
- a mechanical spring arrangement [Figure 2] involved in opening and closing the contact, the spring arrangement including two pre-stressed and antagonist mechanical springs [28A, 28B], a first spring [28A], an opening spring, ensuring the opening of the contact and a second spring [28B], a closing spring, ensuring the closing of the contact, the actuation

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means being stressed by each of these two springs separated by a ring [45], and including an arrangement for immobilizing the contact in the open position and the closed position [48, 50];

wherein the actuation means include a set of jointed elements [44, 12] providing the connection of the rotary shaft and of the ring, and in that, in the closed position of the contact [Figure 1], the set of jointed elements abuts against an abutment element [48].

Yin discloses a manual actuation means, however do not discloses a motorized actuation means. Sfondrini et al. [Figure 10] disclose a motorized actuation means, comprising a motor [60], a shaft [61] a set of gears [78, 81] and jointed elements [64, 640]. The actuation means would have a maximum displacement when the jointed elements or linkage [64, 640] is at an open dead center position [Figure 9] and can only move in the opposite direction. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide motorized opening and closing system for contacts, in Yin as suggested by Sfondrini in order to have quick response time.

Regarding Claim 2, the modified device of Yin will have a set of jointed elements comprises a crank [12] driven into rotation by the output shaft and jointed at one end of a connecting rod [44], the other end of which is jointed on the ring [45]. Regarding Claim 3, in the open position of the contact, the set of jointed elements abuts against the abutment element [48, 50] near a dead centre position, a closed dead centre, the closing spring [28B] being only able to drive it towards the closing position upon moving

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past this dead centre during closing. Regarding Claim 4, the crank is driven into rotation by the output shaft via a toothed segment [Sfondrini, 78, 80] meshed on the output shaft and on which it is jointed. Regarding Claims 5 and 6, Although, Sfondrini does not disclose power converter, speed regulators and damper, it would have been obvious to provide power converter, speed regulators and damper, connected to the motor of Sfondrini in order to control the speed of the movement of the connecting rod.

Regarding Claim 7, Yin discloses springs [128A, 28B] that are mounted aligned along an axis, one of their respective ends abutting against a spring abutment [housing 38] and the other of their facing ends being separated by a ring [45]. Regarding Claims 8 and 9, the device includes an arrangement for disengaging the action of the closing spring [by operation of flange with collars 58, 60]. Regarding Claims 10 and 11, the device comprises a device for pushing the set of jointed elements towards its open dead centre [by operation of motor and elements 48, 50] and the pushing device consists in a striker [one of 48, 50] intended to stress [or stop] the crank [12].

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Smith et al. [US 5,504,289] and Bachofen [US 6,917,006], discloses contact displacement devices. Applicant also should consider these references in response to this office action. Should issue arise concerning the rejection presented above, These references may be relied upon in a subsequent action to support the lack of novelty or obviousness of claimed subject matter to one of ordinary skill in the art.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Fishman whose telephone number is 571-272-1991. The examiner can normally be reached on 7-5 M-T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marina Fishman November 20, 2007

SUPERVISORY PATENT EXAMINER